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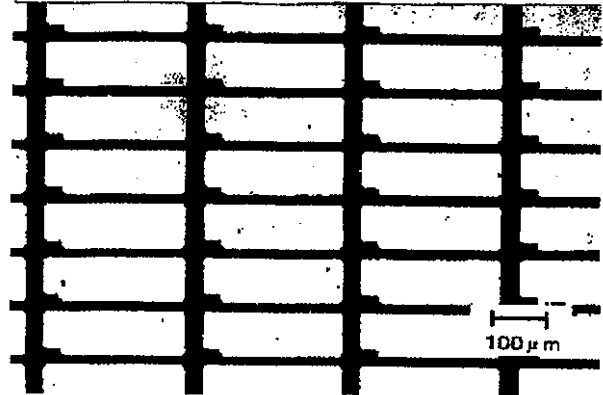
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TITLE : LOW REFLECTION BLACK FILM, LOW
REFLECTION BLACK LAMINATED
FILM, PRODUCTION OF LOW
REFLECTION BLACK FILM AND
COLOR FILTER



ABSTRACT : PROBLEM TO BE SOLVED: To realize a low reflection black (laminated) film having optical characteristics and heat resistance better than those of the low reflection black films as heretofore and used for a black matrix material, to realize a black matrix using the low reflection black (laminated) film and to provide a color filter provided with the black matrix.

SOLUTION: This low reflection black film is the one in which at least one layer of low reflection black film formed on a substrate is composed of a metallic oxide thin film having a homogeneous compsn. essentially consisting of a titanium compd. composed of titanium oxide. The low reflection black film formed on the substrate is composed of a metallic oxide thin film in which the main component in the face in the depth direction is a titanium compd. expressed by $\text{TiO}(2-X)$ (in the formula, $0 \leq X \leq 2$), and has a gradient compsn. in which the value of X continuously increases or reduces with respect to the film thickness direction heading from the lowermost face on the substrate side toward the surface of the black film.

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